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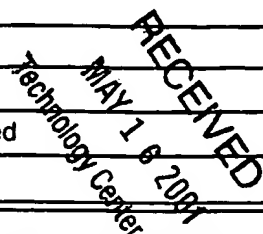
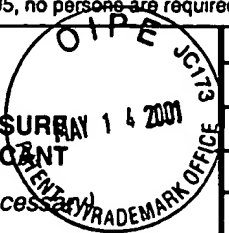


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Substitute for form 1449A/PTO (Modified by BSTZ 6/30/99) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/467,544
		Filing Date	12/10/1999
		First Named Inventor	Berkner
		Group Art Unit	2721
		Examiner Name	Not yet assigned
Sheet 1 of 9	Attorney Docket Number	74451.P103	



U.S. PATENT DOCUMENTS				
Examiner Initials *	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date If Appropriate
SP	5,717,789	Anderson et al.	2/10/1998	
SP	5,883,973	Pascovici et al.	3/16/1999	
SP	5,805,721	Vuylsteke et al.	9/8/1998	
SP	5,867,606	Tretter	2/2/1999	

FOREIGN PATENT DOCUMENTS							
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OTHER DOCUMENTS			
Examiner Initials *		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).	Translation? Yes/No
SP	X	ABRAMOVICH, F., Silverman, B.W., "Wavelet Decomposition Approaches to Statistical Inverse Problems," Biometrika, vol. 85, pp. 115-129, 1998.	
SP	X	BHAKARAN, V., et al., "Text and Image Sharpening of Scanned Images in the JPEG Domain," Proceedings of the 1997 International Conference on Image Processing (ICIP '97), pp. 326-329, 1997.	

Examiner Signature	Date Considered
<i>[Signature]</i>	3/8/2005

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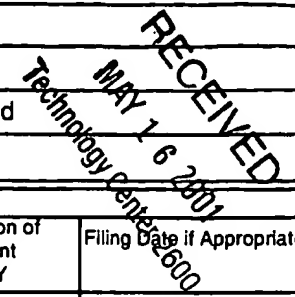
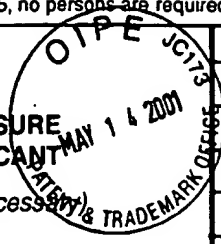


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SB	DONOHO, D.L., "Nonlinear solution of linear inverse problems by wavelet-vaguelett		
	decomposition," J. of Appl. and Comp. Harm. Anal, vol. 2, pp. 101-115, 1995.		
SB	MALLAT, S., A Wavelet Tour of Signal Processing. Academic Press, 1998.		
SB	NEELAMANI, R., Choi, H., Baraniuk, R., "Wavelet-based Deconvolution for Ill-conditioned		
	Systems," in Proceedings of ICASSP, vol. 6, pp. 3241-3244, 1998.		

Examiner Signature		Date Considered	3/8/2005
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Group Art Unit	2721						
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Sheet	3	of	9				

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OTHER DOCUMENTS

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SB	POLESEL, A., et al., "Adaptive unsharp masking for contrast enhancement,"	
	in Proceedings of ICIP'97, pp. 267-270, 1997.	
SB	ZONG, X., Laine, A.F., Geiser, E.A., Wilson, D.C., "De-Noising and contrast enhancement via	
	wavelet shrinkage and nonlinear adaptive gain," Proceedings of the SPIE, vol. 2762,	
	pp. 566-574, Orlando, FL, 1996.	

Examiner Signature	<i>[Signature]</i>	Date Considered	3/8/2005
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Sheet	4	of	9	Attorney Docket Number	74451.P103

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CB	f	ANDREWS, H.C., Hunt, B.R., Digital Image Restoration. Prentice-Hall, Inc. Englewood Cliffs, New Jersey, 1977.	
SB	f	BERKNER, K., Wells Jr, R.O., "Smoothness estimates for soft-threshold denoising via translation	
		invariant wavelet transforms," Tech. Rep. CML TR98-01, Rice University, 1998.	
SB	f	COIFMAN, R.R., Donoho, D.L., "Translation invariant denoising," in Wavelets and Statistics, .	
		Springer Lecture Notes (A. Antoniadis, ed.), Springer-Verlag, 1995.	

Bob Ransawa

3/8/2005

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Attorney Docket Number	74451.P103		
Sheet	5	of	9

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OTHER DOCUMENTS		
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	DONOHO, D.L., "De-noising by soft-thresholding," IEEE Transactions on Information Theory, vol. 41, no.3, pp. 613-627, 1995.	
	JAIN, A.K., Fundamentals of digital image processing. Prentice Hall, Englewood Cliffs, NJ, 1989.	
	KINGSBURY, N., "The dual-tree complex wavelet transform: a new efficient tool for image restoration and enhancement," in Proc. European Signal Processing Conf., pp. 319-322, 1998.	

Examiner Signature:	Date Considered:	
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				Group Art Unit	2721
				Examiner Name	Not yet assigned
Sheet	6	of	9	Attorney Docket Number	74451.P103

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SB	✓	LANG, M., Guo, H., Odegard, J.E., Burrus, C.S., Wells Jr, R.O., "Noise reduction using an un-	
		decimated discrete wavelet transform," IEEE Signal Processing Letters, vol. 3, pp. 10-12, 1996.	
SB	✓	PRATT, W., Digital Image Processing, John Wiley & Sons, NY, 1978.	
SB	✓	ABRAMOVICH, F., Sapatinas, T., Silverman, B.W., "Wavelet Thresholding via a Bayesian	
		Approach," J. Royal Statist. Soc. Ser. B, vol 60, pp. 725-749, 1998.	

Examiner Signature	<i>John R. Mangan</i>	Date Considered	3/8/2005
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		Application Number		09/467,544		
		Filing Date		12/10/1999		
		First Named Inventor		Berkner		
		Group Art Unit		2721		
		Examiner Name		Not yet assigned		
Sheet	7	of	9	Attorney Docket Number		74451.P103

U.S. PATENT DOCUMENTS					
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	Number				

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FOREIGN PATENT DOCUMENTS						
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OTHER DOCUMENTS		
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SP	DEVORE, R.A., Jawerth, B., Lucier, B.J., "Image compression through wavelet transform coding,"	
	IEEE Trans. Information Theory, vol. 38, no. 2, pp. 719-746, 1992.	
SP	DONOHU, D.L., Johnstone, I.M., "Adaption to unknown smoothness via wavelet shrinkage,"	
	J. American Statist. Assoc., pp. 1200-1224, 1995.	

Examiner Signature	<i>John R. Vignar</i>	Date Considered	3/8/2005
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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 TRADEMARK OFFICE

Complete if Known

Application Number	09/467,544
Filing Date	12/10/1999
First Named Inventor	Berkner
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Attorney Docket Number	74451.P103

Sheet	8	of	9
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SP	DONOHU, D.L., Vetterli, M., DeBore, R.A., Daubechies, I., "Data compression and harmonic analysis," IEEE Transactions on Information Theory, vol. 44, no. 6, pp. 2435-2476, 1998.	
SP	LEVY VEHEL, J., Guiheneuf, B., "2-microlocal analysis and applications in signal processing" in Proceedings of International Wavelet Conference, Tanger, Morocco, 1998.	

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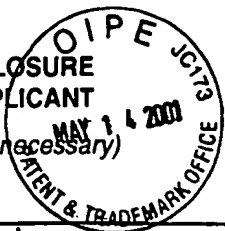
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50	MUNOZ, A., Blu T., Unser, M., "Non-Euclidean Pyramids," in Proceedings of SPIE Conference, San Diego, vol. 4119, pp. 710-720, 2000.	

Examiner Signature	<i>John Berenguer</i>	Date Considered	3/8/2005
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Substitute for Form 1449A/PTO (Modified) <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p> <p style="text-align: center;">AUG 12 2002</p>		<p style="text-align: center;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Application Number</td> <td>09/467,544</td> </tr> <tr> <td>Filing Date</td> <td>12/10/1999</td> </tr> <tr> <td>First Named Inventor:</td> <td>Kathrin Berkner</td> </tr> <tr> <td>Group Art Unit</td> <td>2721</td> </tr> <tr> <td>Examiner Name</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>74451.P103</td> </tr> </table>		Application Number	09/467,544	Filing Date	12/10/1999	First Named Inventor:	Kathrin Berkner	Group Art Unit	2721	Examiner Name	Not Yet Assigned	Attorney Docket Number	74451.P103																												
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Sheet	1	<p>OTHER ART - NO PATENT LITERATURE DOCUMENTS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Examiner Initials*</th> <th style="width: 5%;">Cite No¹</th> <th style="width: 65%;">Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published</th> <th style="width: 20%;">T²</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">SP</td> <td style="text-align: center;">1</td> <td>BURT, PETER J., et al., "The Laplacian Pyramid as a Compact Image Code," IEEE Transactions on Communications, Vol. Com-31, No. 4, April 1983, pgs. 532-540.</td> <td></td> </tr> <tr> <td style="text-align: center;">SP</td> <td style="text-align: center;">2</td> <td>GALATSANOS, NIKOLAS P., et al., "Methods for Choosing the Regularization Parameter and Estimating the Noise Variance in Image Restoration and Their Relation," IEEE Transactions on Image Processing, Vol. 1, No. 3, July 1992, pgs. 322-336</td> <td></td> </tr> <tr> <td style="text-align: center;">SP</td> <td style="text-align: center;">3</td> <td>LU, JIAN, et al., "Contrast Enhancement Via Multiscale Gradient Transformation," Proceedings of the 1994 International Conference on Image Processing (ICIP) '97, pp. 482-486.</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	SP	1	BURT, PETER J., et al., "The Laplacian Pyramid as a Compact Image Code," IEEE Transactions on Communications, Vol. Com-31, No. 4, April 1983, pgs. 532-540.		SP	2	GALATSANOS, NIKOLAS P., et al., "Methods for Choosing the Regularization Parameter and Estimating the Noise Variance in Image Restoration and Their Relation," IEEE Transactions on Image Processing, Vol. 1, No. 3, July 1992, pgs. 322-336		SP	3	LU, JIAN, et al., "Contrast Enhancement Via Multiscale Gradient Transformation," Proceedings of the 1994 International Conference on Image Processing (ICIP) '97, pp. 482-486.																									
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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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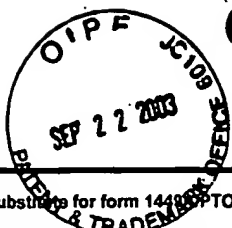
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Substitute for form 1449 PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	09/467,544
Sheet 2 of 2				Filing Date	December 10, 1999
				First Named Inventor	Kathrin Berkner
				Art Unit	2721
				Examiner Name	Unknown
				Attorney Docket Number	74451P103

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
SP	C	CARRATO, SERGIO, et al: "A Simple Edge-Sensitive Image Interpolation Filter", Proceedings of the International Conference on Image Processing (ICIP) Lausanne, Sept. 16-19. 1996, New York, IEEE, US, vol. 1, pgs. 711-714, XP010202493.	
SP	D	CAREY, W. KNOX, et al: "Regularity-Preserving Image Interpretation", IEEE Transactions on Image Processing, vol. 8., no. 9, September 1999, pgs. 1293-1297, XP002246254.	
SP	E	REEVES, T.H., et al: "Multiscale-Based Image Enhancement", Electrical and Computer Engineering, 1997. Engineering Innovation: Voyage of Discovery. IEEE 1997 Canadian Conference on St. Johns, NFLD., Canada May 25-28, 1997, New York, NY. (pgs. 500-503), XP010235053.	

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